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PATENT
Docket No. 440402000600
Formal Drawing

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Beverly S. Carter

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PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Jason F. HUNZINGER

Serial No.: 10/029,489

Filing Date: December 20, 2001

For: FORWARD-LINK RESCUE SYNCHRONIZATION METHOD AND APPARATUS

Examiner: not yet assigned

Group Art Unit: 2681

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SUBMISSION OF FORMAL DRAWINGS

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Enclosed are nine (9) sheets of formal drawings in connection with the above-identified application.

Respectfully submitted,

Dated: April 25, 2002

By: _____
Glenn M. Kubota
Registration No. 44,197

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la-568006

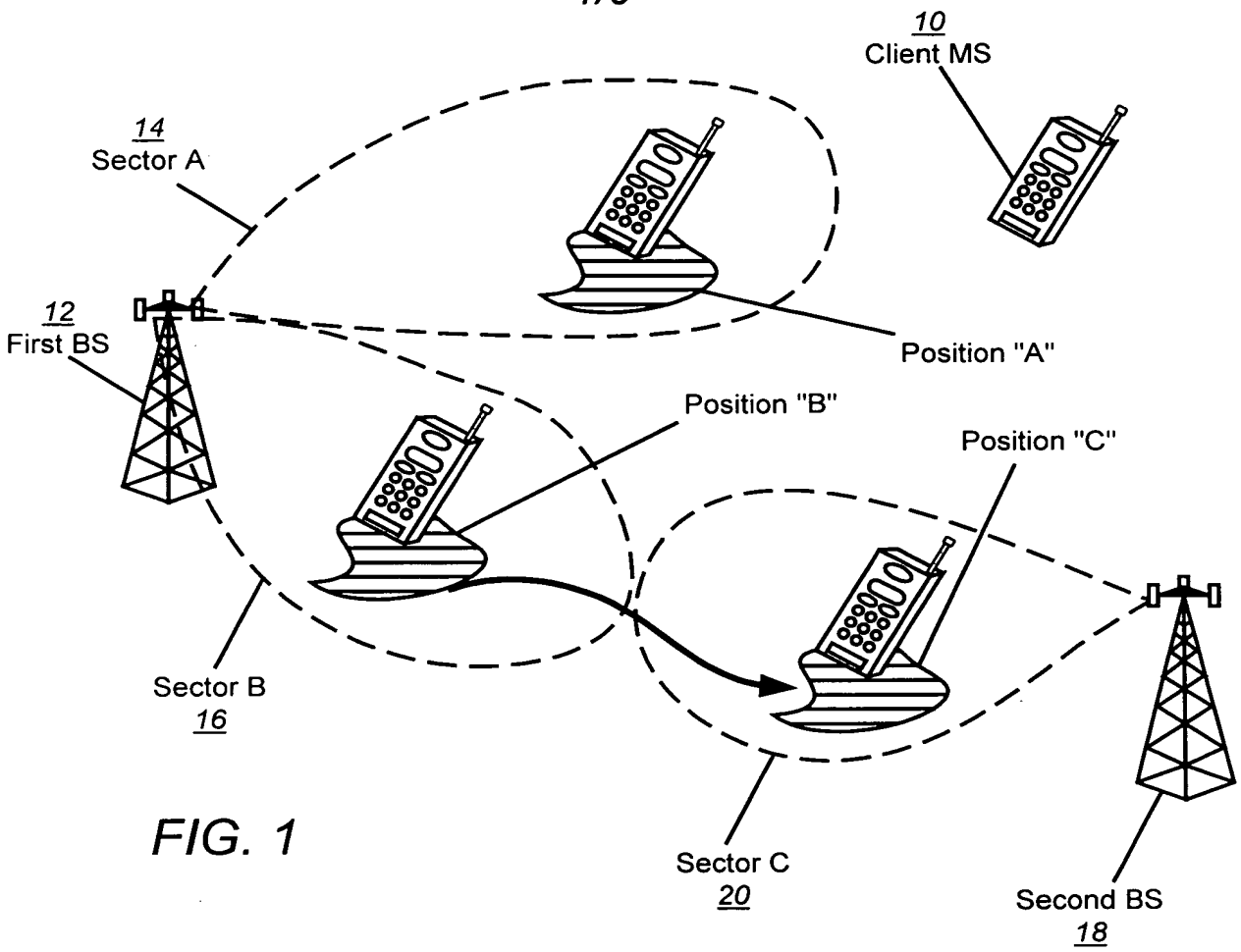
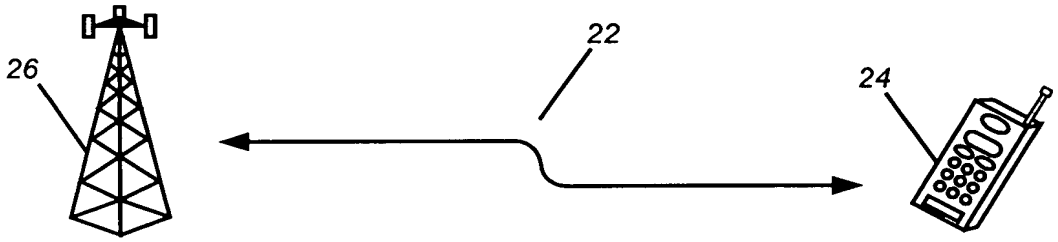


FIG. 1



Forward Link
- Pilot Channel(s)
- Sync Channel
- Paging Channel(s)
- Traffic Channels

Reverse Link
- Access Channel
- Traffic Channel(s)

FIG. 2

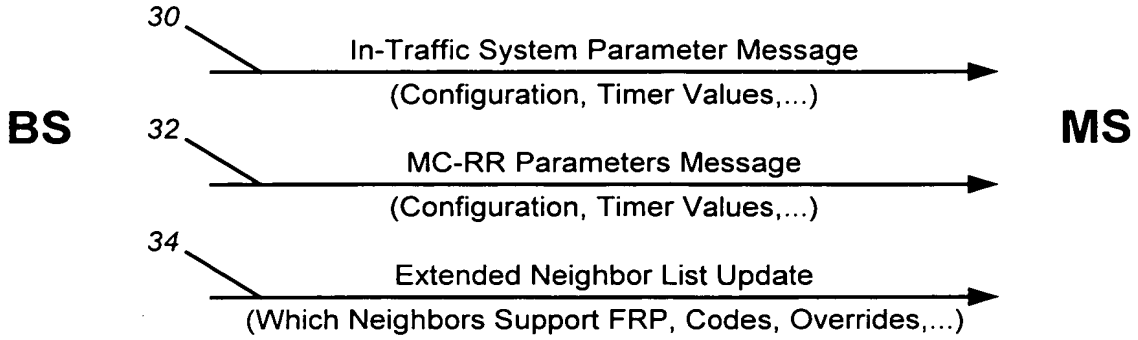

30
In-Traffic System Parameter Message
(Configuration, Timer Values,...)
BS
32
MC-RR Parameters Message
(Configuration, Timer Values,...)
MS
34
Extended Neighbor List Update
(Which Neighbors Support FRP, Codes, Overrides,...)

FIG. 3

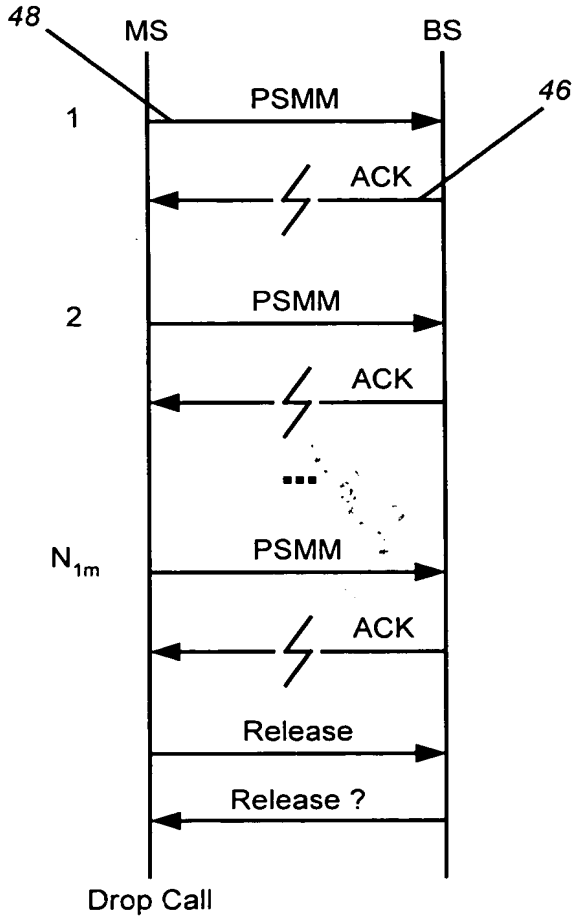

48
MS
BS
1
PSMM
46
ACK
2
PSMM
ACK
...
N1m
PSMM
ACK
Release
Release ?
Drop Call

FIG. 5

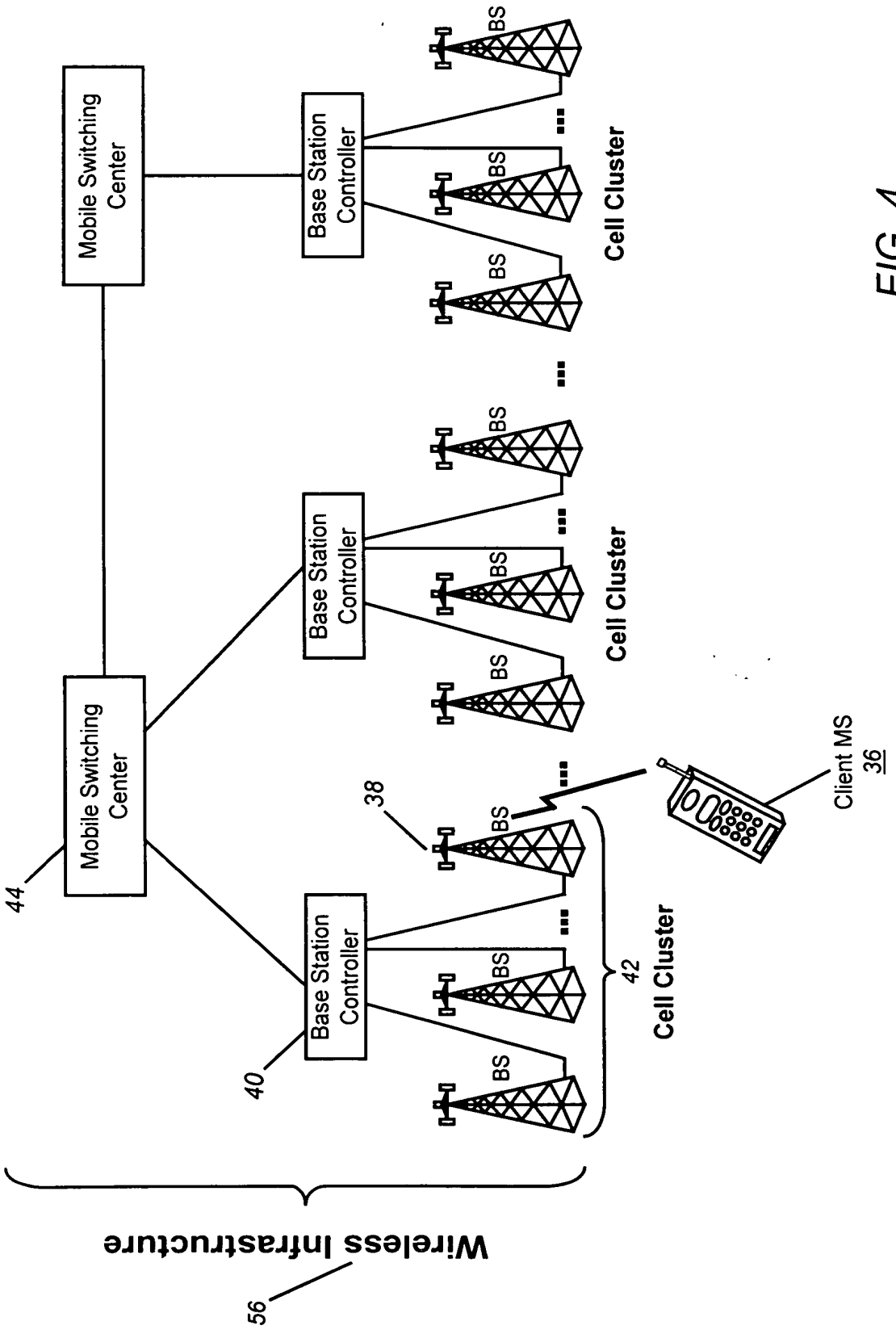

Wireless Infrastructure
56
Mobile Switching Center
44
Mobile Switching Center
Base Station Controller
40
Base Station Controller
Base Station Controller
BS
BS
BS
BS
BS
BS
BS
38
42
Cell Cluster
Cell Cluster
Cell Cluster
Client MS
36

FIG. 4

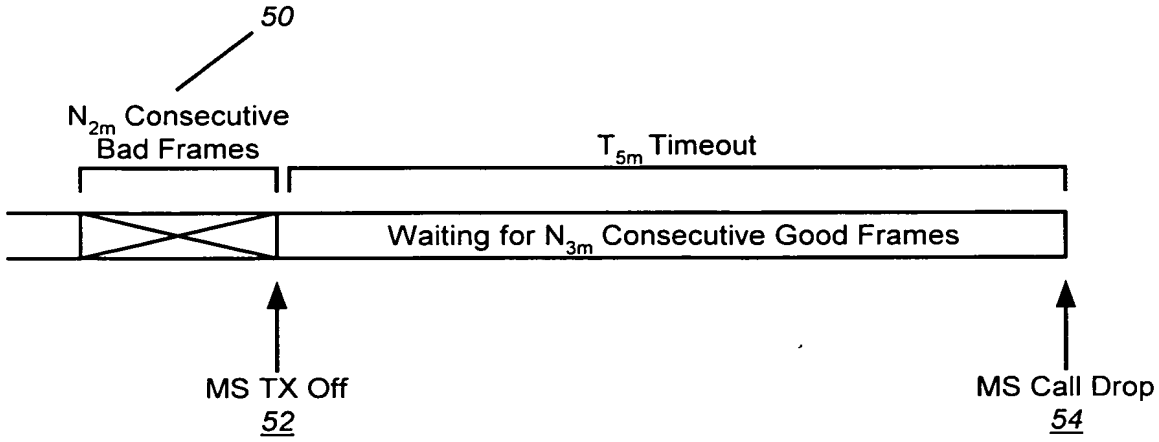

50
N_{2m} Consecutive Bad Frames
T_{5m} Timeout
Waiting for N_{3m} Consecutive Good Frames
MS TX Off
52
MS Call Drop
54

FIG. 6

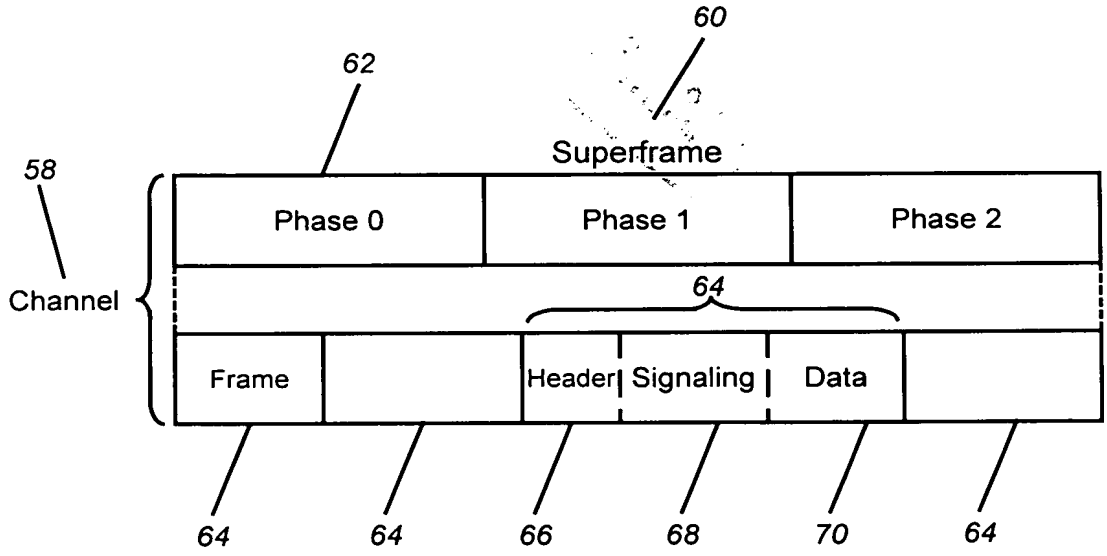

60
62
Superframe
58
Channel
Phase 0
Phase 1
Phase 2
64
Frame
Header
Signaling
Data
64
64
66
68
70
64

FIG. 7

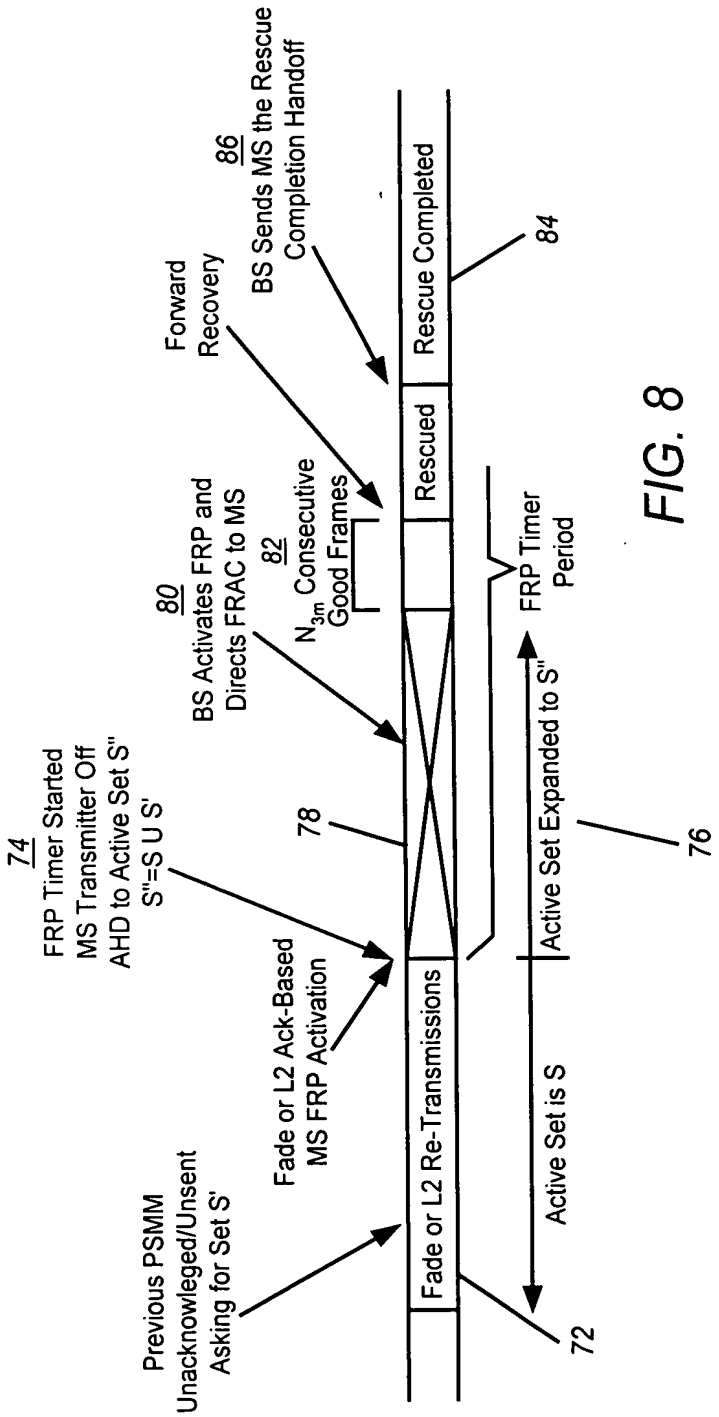

74
FRP Timer Started
MS Transmitter Off
AHD to Active Set S"
S"=S U S'
80
BS Activates FRP and
Directs FRAC to MS
82
N_{3m} Consecutive
Good Frames
Forward
Recovery
86
BS Sends MS the Rescue
Completion Handoff
Previous PSMM
Unacknowleged/Unsent
Asking for Set S'
Fade or L2 Ack-Based
MS FRP Activation
78
Fade or L2 Re-Transmissions
Rescued
Rescue Completed
84
FRP Timer
Period
Active Set is S
Active Set Expanded to S"
72
76

FIG. 8

90
Look for a Good
Rescue Channel in
Sector D
92
Look for a
Good Rescue
Channel in
Sector E
88
Look for a Good
Rescue Channel in
Sector C
MS RX
SUB_ATTEMPT

FIG. 9

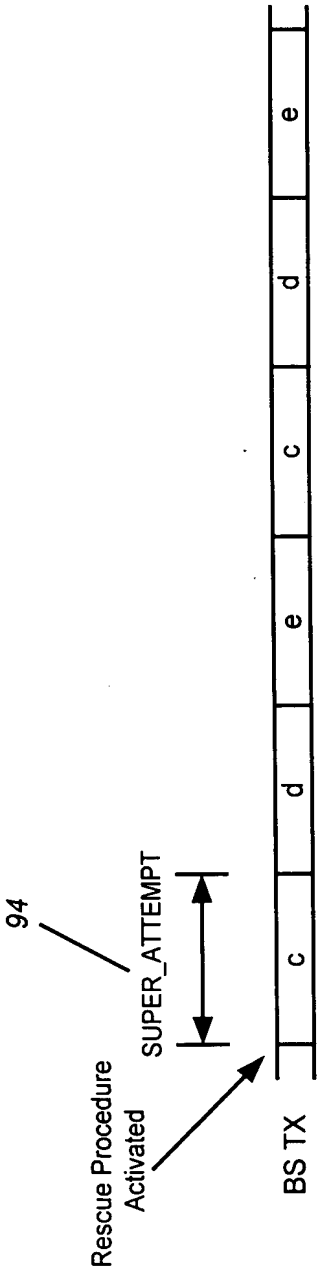


FIG. 10

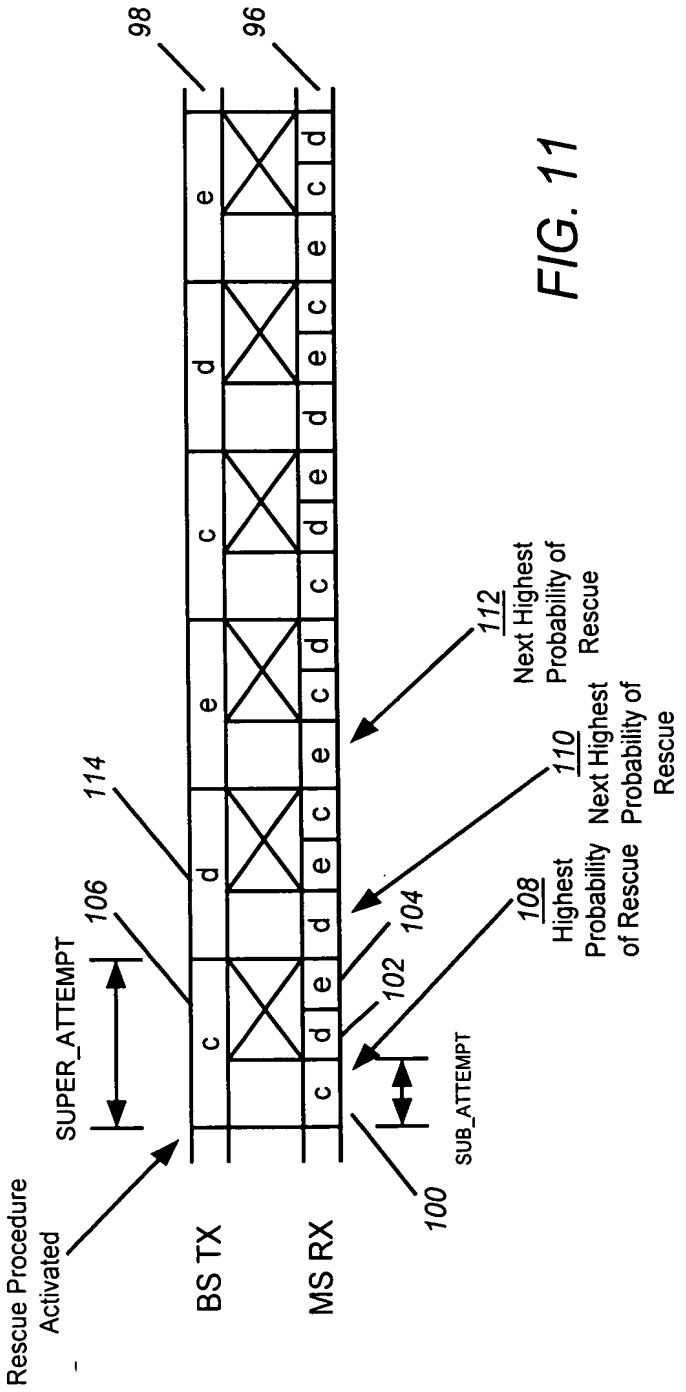

98
96
Rescue Procedure Activated
SUPER_ATTEMPT
106
114
BS TX
MS RX
102
104
108
Highest Probability of Rescue
110
Next Highest Probability of Rescue
112
Next Highest Probability of Rescue
SUB_ATTEMPT
100

FIG. 11

Potential Pilots for Rescue Attempt: A, B, C, D, E
116
1) Multiple Pilot Cycling:
A,B,C
B,C,D
C,D,E
D,E,A
118
2) Multiple Pilot Random:
A,E,C
B,E,A
C,D,A
E,C,B
120
3) Single Pilot Cycling:
A
B
C
D
122
4) Single Pilot Random:
C
A
B
C
124
5) Random:
D
A,C
B,E,C
B,C

FIG. 12

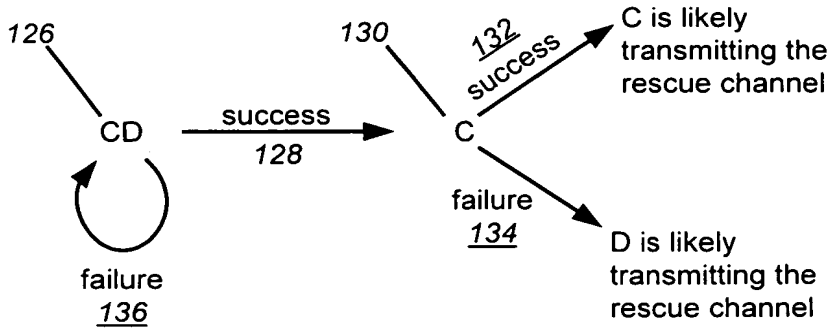


FIG. 13

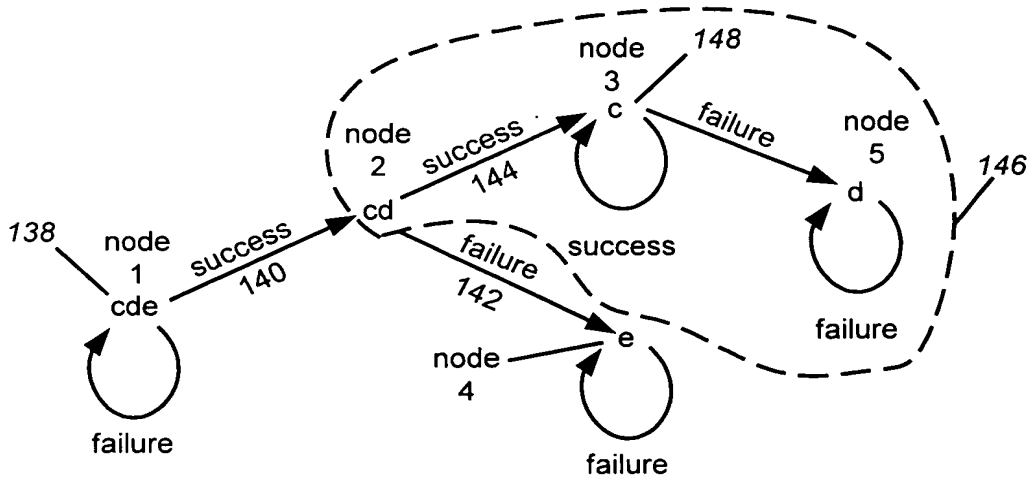


FIG. 14

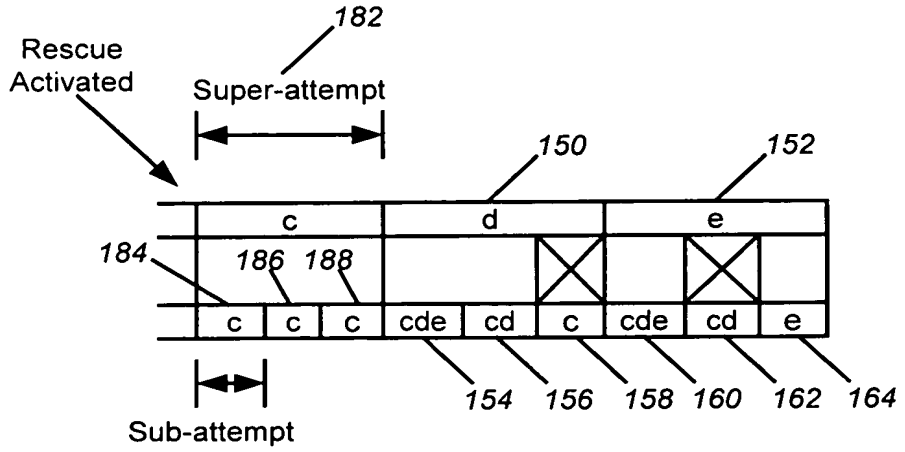


FIG. 15

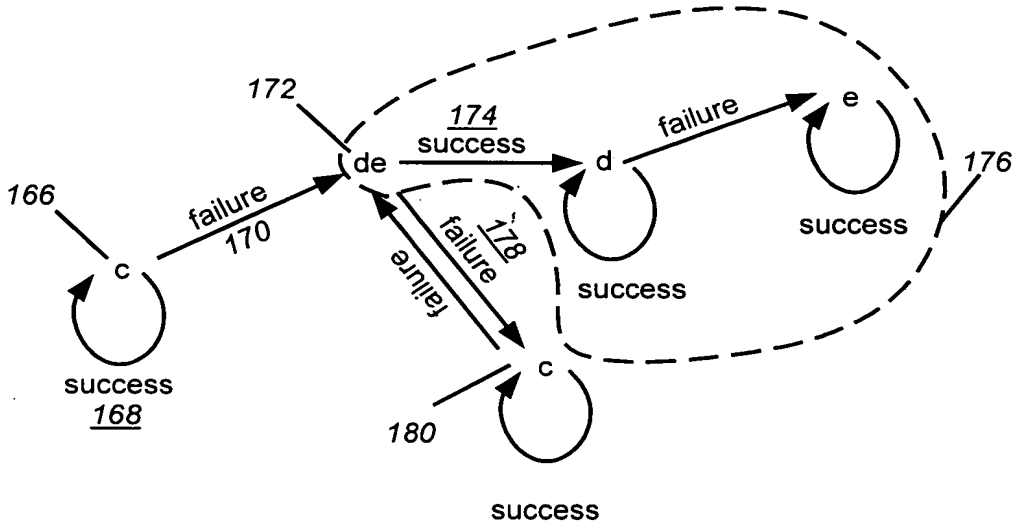

172
174
success
de
d
failure
e
176
166
failure
170
178
failure
failure
success
success
c
success
168
c
180
success

FIG. 16